Ontario

Ministry of Natural Resources

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 247

LOUGHRIN TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the Staff of
the Resident Geologist's Office
Sudbury

86-1433/

NTS Number 41 I/9,10

Mining Claim Map Number M 997

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1985: Loughrin Township, District of Sudbury; Ontario Geological Survey, Geological Data Inventory Folio 247, compiled by the staff of the Resident Geologist's Office, Sudbury, 18p. and 2 maps.

Original Compilation by: de Gagne, Ronn February 8, 1985

Date	Page Revised	Revised by

Date	Page Revised	Revised by

LOUGHRIN TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map - 1 map

Exploration Data Map - 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	**20.116 8**	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	R.D.
2	Assessment Files Research Office, Toronto	N.A.	R.D.
3	ODM General Index; 9volumes	Yes	R.D.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	R.D.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	R.D.
6	ODM Industrial Mineral Reports	Yes	R.D.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	R.D.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	R.D.
9	Newspaper Clippings File	No	R.D.
10	GSC Index to Publications	Yes	R.D.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	R.D.
12	OGS Index Maps	Yes	R.D.
13	Source Mineral Deposit Records (O.G.S.) Mineral Occurrences File	Yes	R.D.
14	Author - Subject Articles File	Yes	R.D.
15	Miscellaneous Papers: ODM & OGS	Yes	R.D.
16	ODM Geological Circulars: OGS Study Series, Reports	Yes	R.D.
17	ODM Preliminary Reports: ODM Bulletins	No	R.D.
18	ODM – OGS Open File Reports	Yes	R.D.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	R.D.
20	OGS Aggregate Resources Inventory Papers	N.A.	R.D.
21	OGS Mineral Potential Maps	Yes	R.D.
22	Theses on File, Sudbury	Yes	R.D.
23	Aerial Photographs on File, Sudbury	Yes	R.D.

METALS AND MINERALS REFERENCES LIST

- ▲ anh. . . . . Anhydrite
- ▲ ank. . . . . Ankerite
- ▲ anna . . . . . Annabergite
- ▲ ap. . . . . Apatite
- ▲ arg . . . . . Argentite
- ▲ As . . . . . Arsenic
- ▲ asp . . . . . Arsenopyrite
- ▲ asb . . . . . Asbestos
- ▲ ba. . . . . Barite
- ▲ be. . . . . Beryl
- ▲ Bi. . . . . Bismuth
- ▲ bn . . . . . Bornite
- ▲ bran . . . . . Brannerite
- ▲ bruc . . . . . Brucite
- ▲ Cd . . . . . Cadmium
- ▲ calc. . . . . Calcite
- ▲ carb . . . . . Carbonate
- ▲ cel . . . . . Celestite
- ▲ cc. . . . . Chalcocite
- ▲ cp. . . . . Chalcopyrite
- ▲ ch. . . . . Chert
- ▲ clay . . . . . Clay
- ▲ Co . . . . . Cobalt
- ▲ cob. . . . . Cobaltite
- ▲ cb. . . . . Columbite
- ▲ Cu . . . . . Copper
- ▲ cor . . . . . Corundum
- ▲ dol . . . . . Dolomite
- ▲ ep. . . . . Epidote
- ▲ ery . . . . . Erythrite
- ▲ fel . . . . . Feldspar
- ▲ fl . . . . . Fluorite (flurospar)
- ▲ fu. . . . . Fuchsite
- ▲ gn. . . . . Galena
- ▲ gt. . . . . Garnet
- ▲ goe . . . . . Goethite
- ▲ Au . . . . . Gold
- ▲ gf. . . . . Graphite
- ▲ gl . . . . . Gravel
- ▲ gyp. . . . . Gypsum
- ▲ hem . . . . . Hematite
- ▲ il . . . . . Ilmenite
- ▲ Fe . . . . . Iron
- ▲ IF. . . . . Iron Formation
- ▲ jas . . . . . Jasper
- ▲ kaol . . . . . Kaolinite (kaolin)
- ▲ ky . . . . . Kyanite
- ▲ Pb . . . . . Lead
- ▲ lim . . . . . Limonite
- ▲ Li. . . . . Lithium
- ▲ mgst . . . . . Magnesite
- ▲ mag . . . . . Magnetite
- ▲ mc . . . . . Malachite
- ▲ Mn . . . . . Manganese
- ▲ mb . . . . . Marble
- ▲ mar. . . . . Marcasite
- ▲ ma . . . . . Marl
- ▲ mi . . . . . Mica
- ▲ mil . . . . . Millerite
- ▲ mo . . . . . Molybdenite
- ▲ Mo . . . . . Molybdenum
- ▲ mon . . . . . Monazite
- ▲ ne. . . . . Nephelite (nepheline)
- ▲ nc. . . . . Niccolite
- ▲ Ni. . . . . Nickel
- ▲ Nb . . . . . Niobium
- ▲ Pd . . . . . Palladium
- ▲ peat . . . . . Peat
- ▲ pent . . . . . Pentlandite
- ▲ Pt. . . . . Platinum
- ▲ py . . . . . Pyrite
- ▲ pyl . . . . . Pyrochlore
- ▲ pyrl . . . . . Pyrolusite
- ▲ po . . . . . Pyrrhotite
- ▲ q . . . . . Quartz
- ▲ qcv . . . . . Quartz carbonate vein
- ▲ ra. . . . . Radioactive minerals
- ▲ RE . . . . . Rare Earths
- ▲ sd. . . . . Sand
- ▲ sgl . . . . . Sand and gravel
- ▲ ss . . . . . Sandstone
- ▲ scap . . . . . Scapolite
- ▲ shee . . . . . Scheelite
- ▲ serp . . . . . Serpentine
- ▲ sh. . . . . Shale
- ▲ sid . . . . . Siderite
- ▲ si . . . . . Silica
- ▲ Ag . . . . . Silver
- ▲ sl . . . . . Slate
- ▲ sm . . . . . Smaltite
- ▲ sod . . . . . Sodalite
- ▲ spec . . . . . Specularite
- ▲ sp. . . . . Sphalerite
- ▲ spd . . . . . Spodumene
- ▲ staur . . . . . Staurolite
- ▲ stib. . . . . Stibnite
- ▲ st . . . . . Stone
- ▲ talc. . . . . Talc
- ▲ Te . . . . . Tellurium
- ▲ td. . . . . Tetrahedrite
- ▲ th. . . . . Thorite
- ▲ Th . . . . . Thorium
- ▲ thuc . . . . . Thucholite
- ▲ ti . . . . . Titanite
- ▲ Ti. . . . . Titanium
- ▲ tour . . . . . Tourmaline
- ▲ trap . . . . . Trap rock
- ▲ W. . . . . Tungsten
- ▲ uran . . . . . Uraninite
- ▲ U . . . . . Uranium
- ▲ verm . . . . . Vermiculite
- ▲ Y . . . . . Yttrium
- ▲ Zn . . . . . Zinc
- ▲ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

LOUGHRIN TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Loughrin Feldspar (Plexterre) Occurrence (Lot 12, Con.6) (Lat.46°36'30", Long.80°33'20")	fel, U		IMC , No.3, p.13	Dept. of Energy, Mines & Resources; Capreol Sheet, Maps 34,35 1:50,000 (1975) O.D.M. Map 48M GSC, Falconbridge, Map 872A 1"=1 mi. (1947)
B	Loughrin Mica Prospect (Lots 8,9, Con.4) (Lat.46°35', Long.80°30')	mi			O.D.M. Map 367 Dept. of Energy, Mines & Resources; Capreol Sheet, Maps 34,35 1:50,000 (1975) O.D.M. Map 367
C	J. R. Roy (Lot 4, Con.3)	gl			Sand and Quarry Files Quarry Permit No.7198
D	Loughrin Township Occurrence (Lot 14, Con.3)	gt			O.D.M. Map 844
E	Loughrin Township Occurrence (Lot 12,13, Con.1)	gt			O.D.M. Map 844

GDIF FORM NO. 1

LOUGHRIN TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	EXTRACTION		
1	Chartrand, N.			83																
2	Jefferson, L.				49															
					50															
					51															
3	Kennco Exploration (Can.)Ltd.								68	68										
4	Loughrin Prospecting Syndicate																	43[1]		
5	Lucky Creek Mining Co. Ltd.							60												
6	Plexman, E. J.			76																
7	Plexterre Mining Corp. Ltd.				53			56 57 58												
8	Roy, J. R.																	76[2]		
9	Sudbay Exploration and Mining Company							53												
10	Sudbury Research Project								?											

GDIF FORM NO. 2

LOUGHRIN TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	EXTRACTION		
11	Wiemer, H. F.			58	58															
	[1] Mica extraction [2] gravel extraction																			

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	Jefferson, L.	1	1951	S18W	55	-	70	-	-
1a		2	1951	S18W	58	-	30	-	-
1b		3	1951	S18W	50	-	60	-	-
1c		5	1952	S30W	45	-	41	-	-
1d		6	1952	S35W	41	-	41	-	-
2		?	?	N30E	45	4	260	FeS,gt	-
3		7X	?	N45E	45	1	81	FeS,mi	-
3a		8X	?	W32N	45	-	50	mag,fel	-
4		9X	1950	S25W	42	4	85	fel,FeS,po,	-
4a		10X	1950	N20E	45	-	63	FeS	-
5		11X	1950	S50W	45	-	91	mag,Fe,py,	-
5a		12X	1950	S22W	40	-	82	gt	-
6		13X	1950	S10W	50	-	79	S,gt	
7		14XA	1950	N30E	45	-	26	fel,fu	-
7a		14XB	1950	N30E	60	1.5	27	-	-
7b		15X	1950	E50S	45	1.5	36	gt,fel	-
8	Plexterre Mining Corp.Ltd.	1	1953	?	45	-	52	-	-
8a		2	1953	?	45	-	80	-	-
9		3	1953	?	32	-	30	-	-
10		4	1953	?	45	-	17	-	-
11	Wiemer, H. F.	DD1	1958	?	?	-	104	-	-

GDIF FORM NO. 3

LOUGHRIN TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
3	Questor Surveys Kennco Exploration (Can.) Ltd.	Airborne EM Airborne Magnetometer	400	Normal S	1000-1200
9	GHD Consultants Sudbury Research Project	Airborne Magnetometer	?	?	?

GDIF FORM NO. 4

LOUGHRIN TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Sudbury

ODM GENERAL INDEX SEARCH

Words searched:

ASHIGAMI LAKE
CHARTRAND, N.
FELDSPAR
GARNET
GLACIAL DEPOSITS
INDUSTRIAL MINERALS LTD.
JEFFERSON, L.
KENNCO EXPLORATION (CANADA) LTD.
LOUGHRIN PROSPECTING SYNDICATE
LOUGHRIN FELDSPAR
LOUGHRIN TOWNSHIP
LUCKY CREEK MINING CO.

Index Volume	Listing:	Report Volume	Part	Page
3	FELDSPAR			
	Ashigami Lake Area	48	10	13,15
8	FELDSPAR			
	River Valley Area	MP49		95
	Sudbury Area	MP17		78
3	GARNET			
	Ashigami Lake Area	48	10	13,15
9	GARNET			
	Loughrin Twp.	MP70		169
7	INDUSTRIAL MINERALS LTD.			
	Capital; Officers; Operations; 1961	71		149
4	JEFFERSON, L.			
	of Loughrin Twp.	53	1	179
4	LOUGHRIN PROPERTY SYNDICATE			
	Capital; Operations	53	1	179
2	LOUGHRIN TP.			
	Feldspar mining	35	1	83 84
3	LOUGHRIN TP.			
	Sand and Gravel	48	10	13
4	LOUGHRIN TP.			
	Mica mining	53	1	179
7	LOUGHRIN TP.			
	Feldspar deposit	IMR3		13
	kyanite	GR9		26
9	LOUGHRIN TP.			
	Anthrophyllite	MP70		35
	Garnet	MP70		169
	Uraninite	MP70		419

ODM GENERAL INDEX SEARCH

Words searched:

MICA
MUSCOVITE
PLEXMAN, E. J.
PLEXTERRE MINING CORP.
SAND AND GRAVEL LTD.
SUDBAY EXPLORATION LTD.
URANIUM
WIEMER, H. F.

Index Volume	Listing:	Report Volume	Part	Page
6	LUCKY CREEK MINING CO. LTD.			
	Incorporated	66	1	33
3	SAND AND GRAVEL			
	Ashigami Lake area	48	10	2,13
5	SUDBAY EXPLORATION MINING COMPANY			
	Incorporated	62	1	59
9	URANIUM			
	Loughrin Twp., Sudbury District	MP70		419
7	WIEMER, H. F.			
	of Industrial Garnet Company	71		146
	of Industrial Garnet Company	72		155
	Jones Twp., Sudbury District	GR191		81

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D., Lumbers, S. B.	1974-75	Sudbury-Cobalt Sheet	O.G.S. Map 2361	1"=4 mi.
Lumbers, S. B.	1973	River Valley Area Districts of Sudbury and Nipissing	O.D.M. Map 844	1"=1 mi.
Meyn, H. D.	1966	Capreol Sheet Districts of Sudbury and Nipissing	O.D.M. Map 367	1"=2 mi.
		GEOPHYSICAL MAPS		
G.D.H. Consultants Ltd.	?	Aeromagnetic Survey Sudbury Research Project	Map 2	1"=¼ mi.
Gupta, V. K. and Wadge, D. R.	1980	Bouguer Gravity and Generalized Geology Map North Bay-Marten River Area	O.G.S. Map p.2297	1:100 000
Gupta, V. K. and Wadge, D. R.	1980	Bouguer Gravity and Generalized Geology Map Sudbury-Onaping Lake Area	O.G.S. Map P.2482	1:100 000
O.D.M.-O.G.S.	1965	Aeromagnetic Map Capreol Sheet	Map 1511G	1"=1 mi.
O.D.M.-O.G.S.	1965	Aeromagnetic Map Glen Afton Sheet	Map 1501G	1"=2 mii.
O.D.M.-G.S.C.	1965	Aeromagnetic Map Sudbury, Ontario	Map 7067G	1"=4 mi.

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SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
O.G.S.-G.S.C.	1976	Uranium Reconnaissance Program Airborne Gamma-Ray Spectrometer Survey Total Count, Sudbury, Ontario	O.G.S. Map 1610	1"=250 000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Dept. of Energy, Mines and Resources	1975	Topographic Map Capreol Sheet	Maps 34,35	1"=50 000
Gartner, J. F.	1980	N.O.E.G.T.S. Data Base Map, Capreol N.O.E.G.T. Study 95, Capreol	Map 5001	1:100 000
		MINERAL POTENTIAL MAPS		
Meyn, H. D., Howarth, J. R.	1977	Molybdenum Deposits of Ontario East Central Sheet	O.G.S. Map P.1246	1"=16 mi.
O.G.S. and Mineral Resources Bank	1982	Mineral Potential Map of Ontario West Central Sheet	OFR5327	1"=16 mi.
Springer, J.	1976	Ontario Mineral Potential Southern Part of Sudbury Sheet	O.G.S. Map P.1511	1:250 000
		GEOCHEMICAL		
		None as of February 8, 1985		
		GEOLOGICAL REPORTS AND MAPS		
Fairbairn, H. W.	1939	Geology of the Ashigami Lake Area	O.D.M. AR,Vol.48, pt.10; Map 48(M)	1"=¼ mi.

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SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Ginn, R. M.	1961	Bibliography of Theses on the Pre-Cambrian Geology of Ontario	O.D.M. MP2	
G.S.C.	1947	Geological Map, Falconbridge	Map 87A	1"=1 mi.
Hewitt, D. F.	1952	Kyanite and Sillimanite in Ontario	O.D.M. IMC4	p.5
O.G.S.-G.S.C.	1978	Summary of Field Work, 1972	MR82	p.200
Phemister, T. C.	1939	Notes on Several Properties in the District of Sudbury	O.D.M. AR,Vol.48, pt.10	p.15-28
Spence, H. S.	1932	Feldspar	Dept. of Mines Report No.731	pp.61,93
Thomson, Jas. E.	1960	Uranium and Thorium Deposits at the Base of the Huronian System in the District of Sudbury	GR1	Chart 1
Vos, M. A., Smith, B. A., Stevenato, R. J.	1981	Industrial Minerals of the Sudbury Area	OFR5329	p.128,126,102
Warren Industrial Feldspar Co. Ltd.	1984	Engineering and Economic Feasibility Study for Silica and Sand Production in the Area of Sudbury, Ontario	OFR5507	
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
Card, K. D.	1959	The Uranium Bearing Huronian Sediments of the Sudbury District. B.Sc. Queen's		
Davis, G. L.	?	Geochronology and Geochemistry of the Grenville Province	Sudbury File 3-4	p.224-230

LOUGHRIN TOWNSHIP

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Davis, G. L. et al.	1970	The Age of Metamorphism in the Grenville Province and the Age of the Grenville Front	Sudbury File 3-4 Carnegie Institute Yearbook Vol.68	p.307-314
Henderson, J. R.	1967	Structural and Petrographic Relations Across the Grenville Province, Southern Province Boundary, Sudbury, Ontario. Ph.D. McM.	Sudbury Theses File No.27	
Latour, T. E.	1981	Significance of Folds and Mylonites at the Grenville Front in Ontario (Summary)	G.S.A. Bull. Vol.92, pt.1	p.411-413
Laurin, A.	1955	The Problem of the Boundary between the Grenville and Temiskaming Provinces, Ontario. B.Sc. Laval	MP2	p.29
Wright, H. D.	1952	Mineralogical Study of Certain Colorado and Ontario Uraninite Deposits. Ph.D. Col.	MP2	p.48

GDIF FORM NO.9

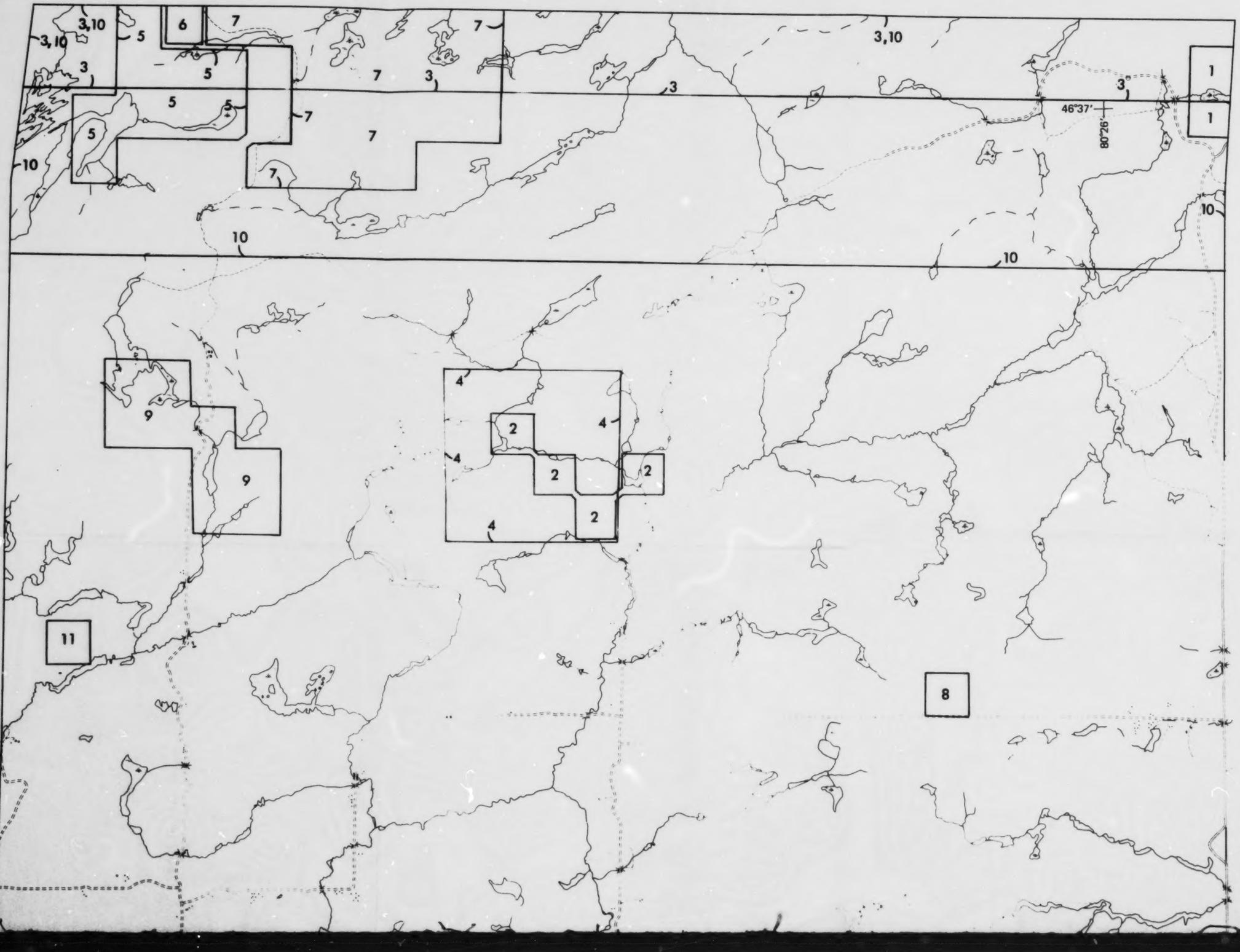
NOTES AND ADDENDA

Aerial Photographs

Scale 1"=¼ mile

Year	Roll	Line	Number
1977	24	4626	160
	24	4624	186
	25	4623	41

GDIF FORM NO.30



Ministry of Natural Resources

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GEOLOGICAL DATA INV

(Map 1 o

LOUGHRIN

DISTRICT OF

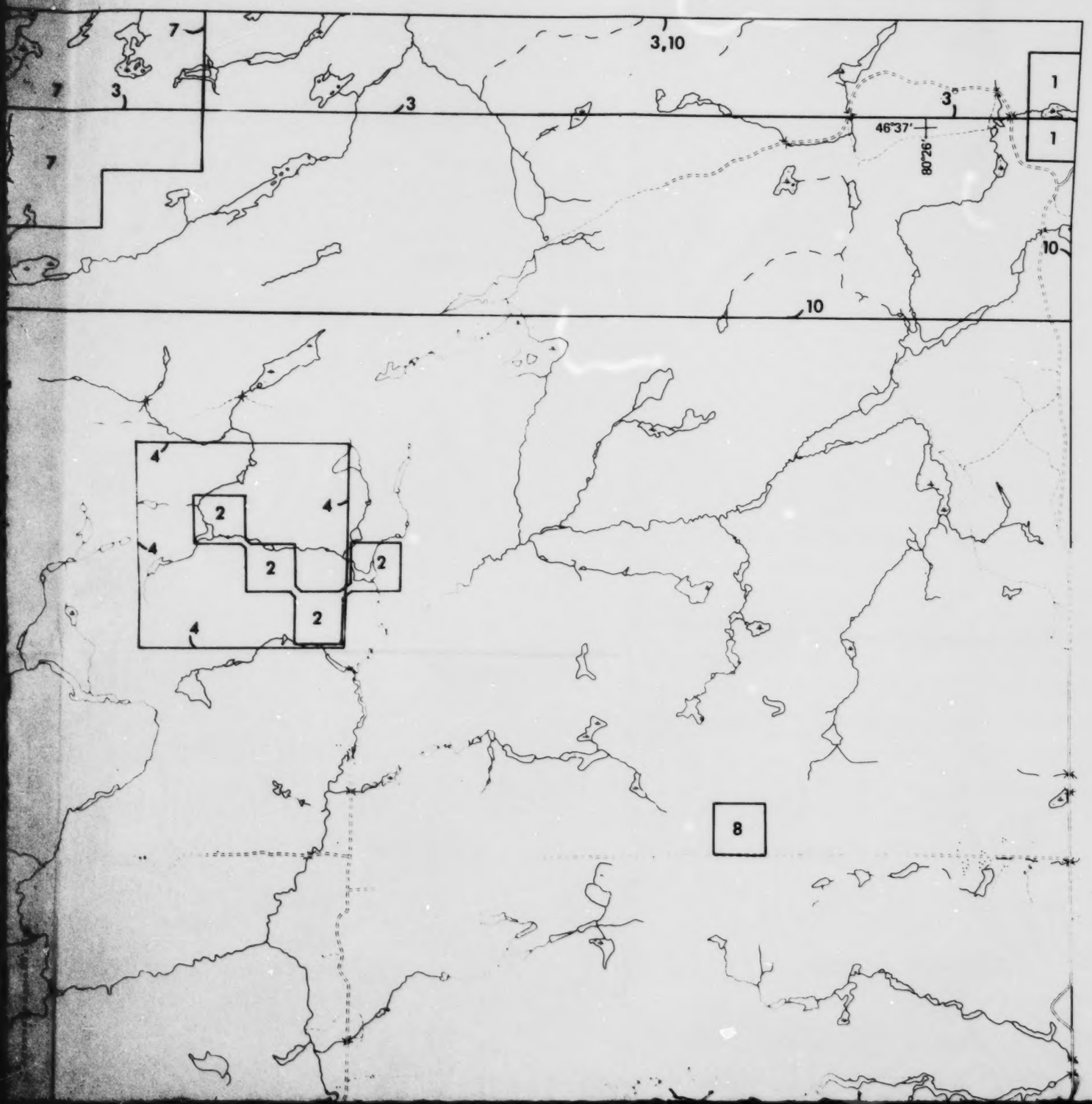
Scale 1:3

Mile 0.5 0

Kilometre 0.5 0

EXPLORATION D

Reference number is a
See listing in text page



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Ministry of Natural Resources

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 247

(Map **1** of **2**)

LOUGHRIN TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined.
See listing in text pages.

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GEOLOGICAL DATA IN

(Map 1

LOUGHRIN

DISTRICT

Scale

Mile 0.5 0

Kilometre 0.5 0

10

10

10

7

7

9

9

4

4

4

2

2

2

2

11

8

80°33'

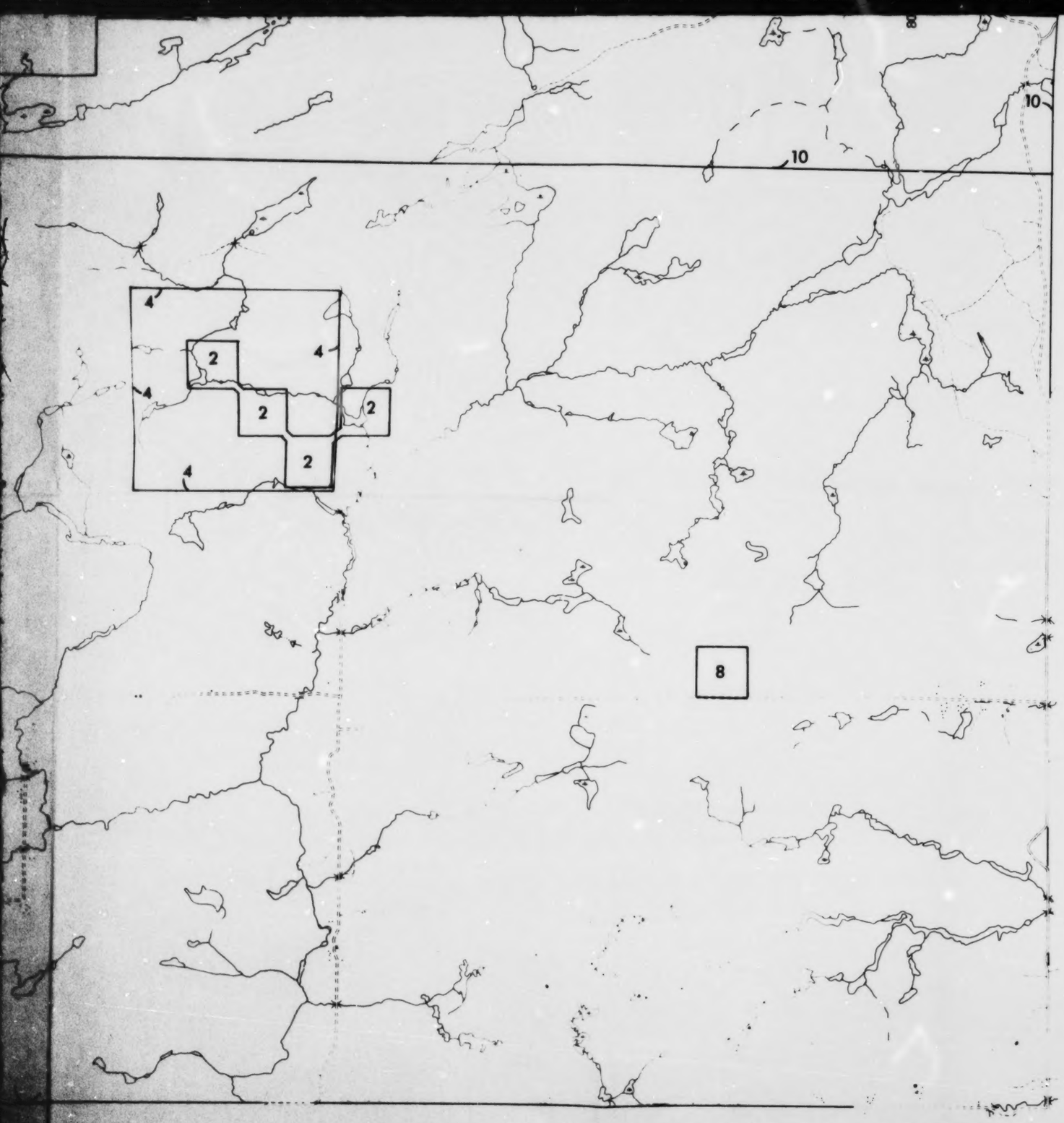
46°32'30"

EXPLORATION

Reference number
See listing in text p

x ④

Small area of explo



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ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 247

(Map **1** of **2**)

LOUGHRIN TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

Small area of exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

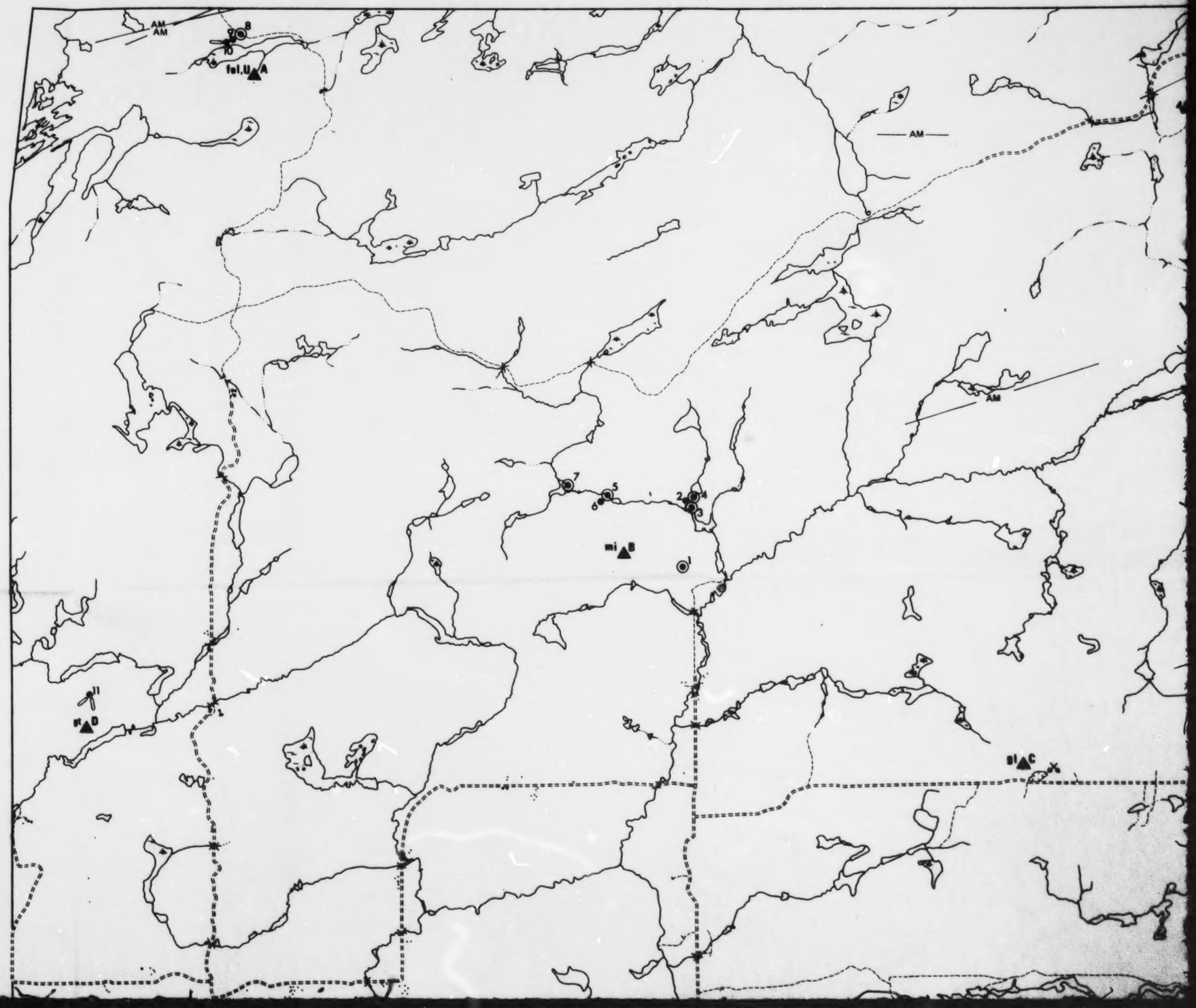
- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐ Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ■ AM — Airborne Magnetometer Anomaly
- ☐ Airborne Electromagnetometer Anomaly
  Length of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly.
  Location of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly
  Conductor Axis: definite, probable, possible
- ☐ ARA — Airborne Radiometric Anomaly
- ☐ M — Ground Magnetometer Anomaly
- ☐ VL — Ground Electromagnetometer Anomaly
  (VL - Vertical Loop; HL - Horizontal Loop;
  VLF - Very low freq; Turam; JEM -
  Crone EM - 16)
- ☐ RA — Ground Radiometric Anomaly
- ☐ IP — Induced Polarization Anomaly
- ☐ SP — Self Potential Anomaly
- ☐ AFMAG — Audio-frequency magnetometer anomaly
  (total intensity)
- ☐ R — Resistivity Anomaly
- ☐ GR — Gravity Anomaly

MISCELLANEOUS DATA

- ■ Trenching, pit
- ☐ Rock quarry
- ■ Adit
- ■ Sand and/or gravel pit



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Ontario Ministry of Natural Resources

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Minister

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Deputy Minister

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 247

(Map **2** of **2**)

LOUGHRIN TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized Float with reference letter

DRILL HOLES

- 2 — Location of single drill hole, with reference number
- 2 — Location of closely spaced group of drill holes, with reference number

Geochemical sample site, with reference number

Area of geochemical sampling, with reference number

Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

Airborne Magnetometer Anomaly

Airborne Electromagnetometer Anomaly
Length of anomaly along flight line

Airborne Electromagnetometer Anomaly.
Location of anomaly along flight line

Airborne Electromagnetometer Anomaly
Conductor Axis: definite, probable, possible

Airborne Radiometric Anomaly

Ground Magnetometer Anomaly

Ground Electromagnetometer Anomaly
(VL - Vertical Loop; HL - Horizontal Loop;
VLF - Very low freq; Turam; JEM -
Crone EM - 16)

Ground Radiometric Anomaly

Induced Polarization Anomaly

Self Potential Anomaly

Audio-frequency magnetometer anomaly
(total intensity)

Resistivity Anomaly

Gravity Anomaly

MISCELLANEOUS DATA

Trenching, pit

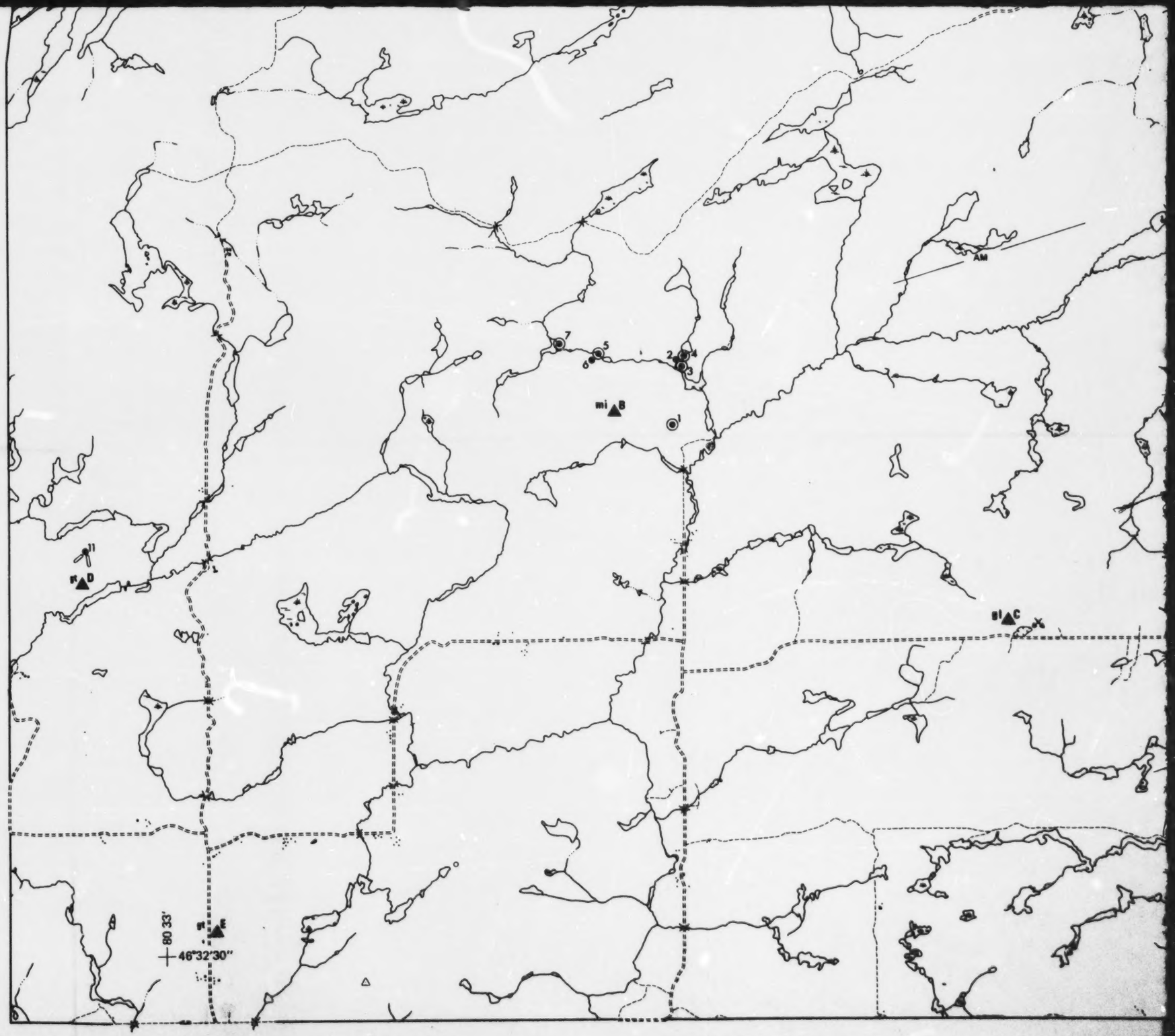
Adit

Open pit

Rock quarry

Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 247

(Map **2** of **2**)

LOUGHRIN TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized Float with reference letter

DRILL HOLES

- Location of single drill hole, with reference number
- Location of closely spaced group of drill holes, with reference number
- Drill hole, exact location uncertain, with reference number.
- Property with underground drill holes in this general area, with reference number
- Property with drill holes which have not been plotted on map, with reference number
- Reverse Circulation Drill Hole; Churn drilling, with reference number